

ABSTRACT OF THE DISCLOSURE

A demodulation circuit receives an OFDM transmit  
signal containing an information carrier,  
an additive-information transmission carrier, and  
a reception-synchronization pilot signal to convert  
these carriers and signal into frequency-axial data.  
The information carrier transmits information data.  
The additive-information transmission carrier and the  
reception-synchronization pilot signal have a lower  
multi-valued modulation degree than the information  
carrier. A differential detection circuit conducts  
detection processing by using a detection-subject  
symbol of a plurality of symbols indicated at  
a predetermined interval in the same frequency range  
and a symbol ahead that detection-subject symbol by  
a predetermined time in either one output of the  
additive-information transmission carrier and the  
reception-synchronization pilot signal output from the  
demodulation circuit. A first S/N ratio generating  
circuit generates an S/N ratio based on a detection  
output provided from the differential detection  
circuit. The S/N ratio indicates the reception quality  
of the OFDM transmit signal.

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